

08. EQUATIONS

OPC. A

1. Define the following topics for equations:
 - a. Equation.
 - b. Unknown.
 - c. Solution.
 - d. Equivalent equations.
2. Solve the following equation: $\frac{x+2}{3} - \frac{3x-4}{4} = 2x-8$
3. Solve the following equations:
 - a. $x^2-81=0$; b. $x^2+2x-15=0$
4. Write the general form of a second degree equation which solutions are 3 and -2.
5. The ages of a mother and her son add 40 years. After 14 years the mother's age will be triple than the son. What are their ages today?

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OPC. B

1. Explain the different types of second degree equations and how to solve each one.
2. Solve the following equation: $\frac{x-1}{2} - \frac{x+1}{3} = x - \frac{5}{2}$
3. Solve the following equations: a) $x^2 - 4x = 0$ b) $3x^2 - \frac{3x}{4} - \frac{9}{8} = 0$
4. Write the general form of a second degree equation which solutions are -5 and 7.
5. Find the side of a square knowing that if we add 5 cm in two parallel sides we get a 24 cm² rectangle.